

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1029254

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029254
REPORT IS A COMBINATION OF REPORTS P985312 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D710UB2750-4F0-XX-W2A-D1_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

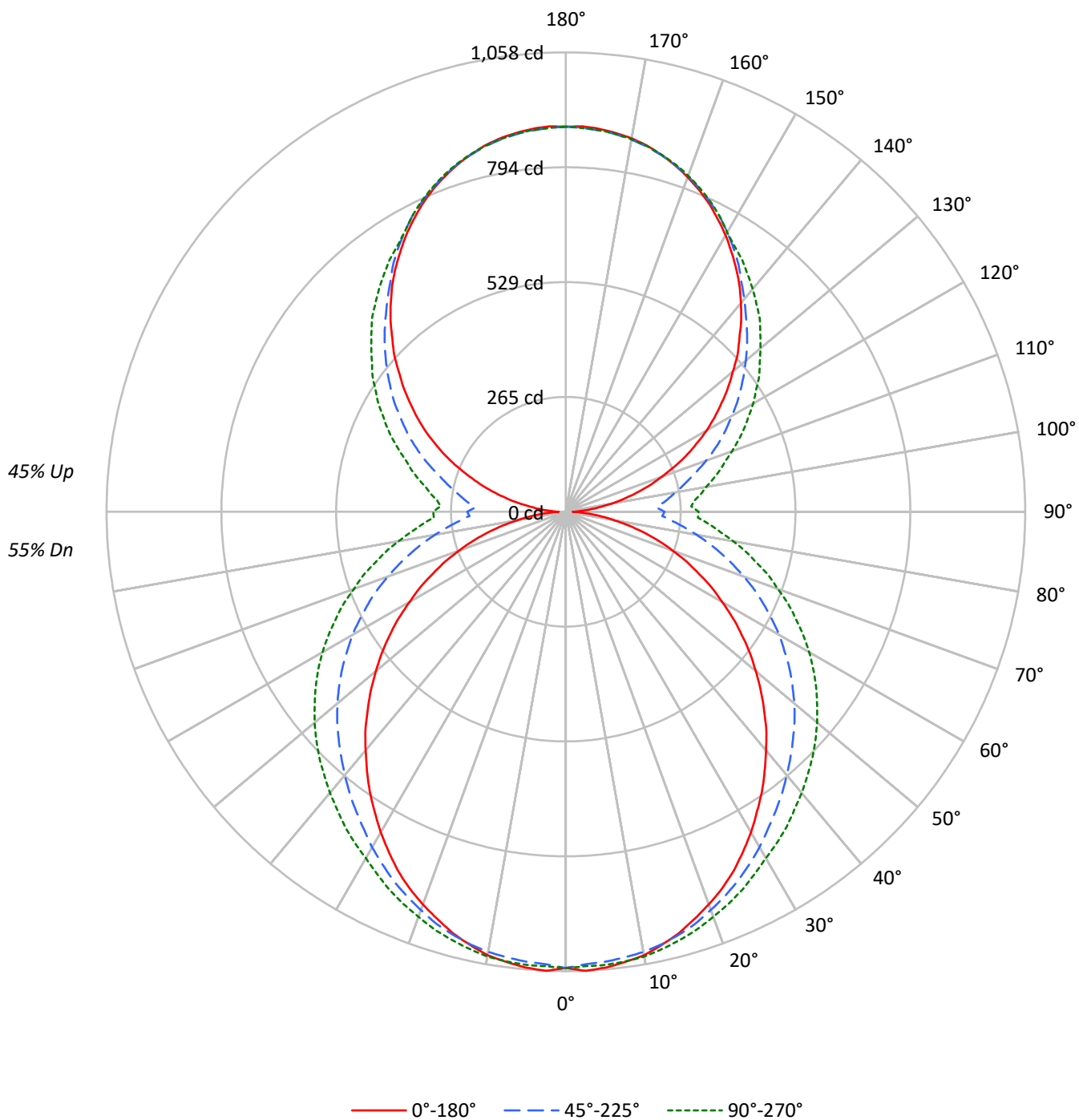
Lumens per Lamp: N/A
Luminaire Lumens: 6491.0 lumens
Efficiency: N/A
Efficacy: 76.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61			55
1	97	92	88	84	90	85	82	78	73	70	67	62	59	57	51	49	48			43
2	88	80	73	67	81	74	68	63	63	58	54	53	50	47	44	41	39			35
3	80	69	61	55	73	64	57	52	55	50	45	46	42	39	38	35	33			29
4	73	61	53	46	67	57	49	43	49	43	38	41	36	33	34	31	28			24
5	67	54	46	39	61	50	43	37	43	37	32	37	32	28	30	27	24			21
6	61	48	40	34	56	45	37	32	39	33	28	33	28	24	28	24	21			18
7	57	44	35	29	52	41	33	28	35	29	25	30	25	21	25	21	18			16
8	52	40	31	26	48	37	30	25	32	26	22	27	23	19	23	19	16			14
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	15			12
10	46	33	26	21	42	31	24	20	27	21	17	23	19	15	20	16	13			11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16632	16632	16632
5°	16706	15921	15831
10°	16595	15371	15146
15°	16360	14799	14442
20°	16066	14201	13775
25°	15773	13627	13169
30°	15364	13044	12569
35°	14950	12483	12129
40°	14515	11997	11692
45°	14100	11555	11311
50°	13655	11149	10935
55°	13187	10718	10551
60°	12614	10269	10149
65°	12016	9752	9684
70°	11342	9198	9185
75°	10478	8643	8715
80°	9117	8066	8226
85°	7741	7522	7807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14100 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.6	1.5
10°-20°	285.7	4.4
20°-30°	432.8	6.7
30°-40°	527.1	8.1
40°-50°	567.1	8.7
50°-60°	550.7	8.5
60°-70°	481.0	7.4
70°-80°	370.2	5.7
80°-90°	250.4	3.9
90°-100°	225.9	3.5
100°-110°	299.3	4.6
110°-120°	380.9	5.9
120°-130°	438.4	6.8
130°-140°	459.8	7.1
140°-150°	435.3	6.7
150°-160°	362.4	5.6
160°-170°	240.3	3.7
170°-180°	84.0	1.3
0°-30°	818.1	12.6
0°-40°	1345.2	20.7
0°-60°	2463.0	37.9
0°-90°	3564.6	54.9
90°-120°	906.1	14.0
90°-150°	2239.6	34.5
90°-180°	2926.0	45.1
0°-180°	6491.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1054	1049	1040	1049	1048	100
15°	1005	1008	1008	1022	1020	283
25°	914	924	938	956	961	420
35°	787	813	842	876	886	492
45°	646	687	740	787	802	498
55°	495	550	629	684	704	443
65°	338	413	502	565	585	336
75°	187	273	370	436	455	198
85°	55	149	247	311	332	58
90°	16	113	227	287	306	13
95°	51	130	223	281	298	53
105°	168	215	296	350	367	179
115°	306	327	394	439	453	302
125°	439	445	492	531	544	392
135°	565	573	590	621	631	437
145°	684	689	694	704	708	428
155°	782	784	787	790	788	360
165°	851	850	850	855	852	240
175°	885	883	882	887	882	84
180°	887	887	887	887	887	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.7	1050.7	1050.7	1050.7	1050.7
2.5°	1058.3	1053.7	1043.1	1050.7	1047.6
5°	1053.7	1049.2	1040.0	1049.2	1047.6
7.5°	1046.1	1043.1	1035.4	1046.1	1044.6
10°	1037.0	1033.9	1029.4	1041.5	1040.0
12.5°	1021.7	1023.3	1020.2	1032.4	1030.9
15°	1005.0	1008.0	1008.0	1021.7	1020.2
17.5°	983.7	989.8	994.3	1008.0	1008.0
20°	962.4	970.0	976.1	992.8	992.8
22.5°	939.5	948.7	957.8	974.5	977.6
25°	913.6	924.3	938.0	956.3	960.8
27.5°	883.2	899.9	915.2	938.0	941.0
30°	852.7	872.5	892.3	916.7	921.2
32.5°	819.2	842.1	866.4	895.4	904.5
35°	787.2	813.1	842.1	875.6	886.2
37.5°	752.2	781.2	817.7	854.2	864.9
40°	717.2	750.7	791.8	831.4	845.1
42.5°	683.7	717.2	765.9	810.1	823.8
45°	645.6	686.7	740.0	787.2	802.5
47.5°	609.1	653.2	714.2	762.9	779.6
50°	571.0	618.2	686.7	738.5	755.3
52.5°	534.5	584.7	657.8	711.1	729.4
55°	494.9	549.7	628.9	683.7	703.5
57.5°	456.8	517.7	596.9	656.3	676.1
60°	415.7	481.2	568.0	625.8	647.2
62.5°	379.2	447.7	534.5	596.9	616.7
65°	338.0	412.7	502.5	564.9	584.7
67.5°	301.5	379.2	470.5	533.0	554.3
70°	261.9	341.1	435.5	501.0	519.2
72.5°	225.4	307.6	403.5	467.5	490.3
75°	187.3	272.6	370.0	435.5	455.3
77.5°	150.7	239.1	338.0	403.5	424.8
80°	114.2	207.1	306.1	370.0	391.3
82.5°	83.7	175.1	275.6	339.6	359.4
85°	54.8	149.2	246.7	310.6	332.0
87.5°	33.5	124.9	222.3	284.7	304.5
90°	15.9	113.2	227.2	286.6	305.6
92.5°	30.2	116.9	210.5	270.6	288.9
95°	51.1	130.1	223.0	280.9	297.6
97.5°	75.8	147.9	239.3	295.6	313.9
100°	105.7	168.0	255.6	311.9	327.9
102.5°	135.6	190.4	275.6	331.1	347.2
105°	168.5	215.0	295.6	350.3	367.1
107.5°	202.9	242.5	318.6	371.2	384.1
110°	234.4	269.3	344.0	392.7	407.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	270.3	299.2	368.4	414.9	430.2
115°	305.5	326.7	393.8	438.6	453.2
117.5°	339.1	357.2	417.5	460.9	473.9
120°	374.3	386.4	441.3	483.9	498.5
122.5°	406.5	415.5	468.0	506.9	519.1
125°	438.6	445.3	491.9	530.7	543.7
127.5°	471.5	478.2	516.3	551.4	562.9
130°	502.2	510.4	540.9	575.9	585.1
132.5°	536.6	542.6	566.2	597.5	607.5
135°	565.0	573.3	590.0	621.2	631.2
137.5°	598.0	604.7	613.8	642.1	649.7
140°	627.2	632.4	639.1	663.5	669.6
142.5°	657.1	662.3	664.6	683.6	688.2
145°	684.0	689.3	693.8	703.6	708.2
147.5°	709.5	716.2	719.2	722.2	723.8
150°	735.7	740.2	743.2	745.4	743.2
152.5°	758.9	763.4	767.1	770.1	767.1
155°	782.1	784.3	786.6	790.3	788.1
157.5°	802.3	803.8	805.3	810.5	806.8
160°	820.2	821.7	822.5	827.0	824.0
162.5°	836.7	836.7	837.5	842.7	839.0
165°	850.9	850.2	850.2	855.4	851.7
167.5°	863.7	861.4	861.4	866.6	862.9
170°	873.4	871.1	870.4	875.6	871.1
172.5°	880.1	877.9	877.1	882.4	877.9
175°	885.4	883.1	881.6	886.9	882.4
177.5°	888.4	886.1	884.6	889.1	884.6
180°	886.9	886.9	886.9	886.9	886.9

(END OF REPORT)